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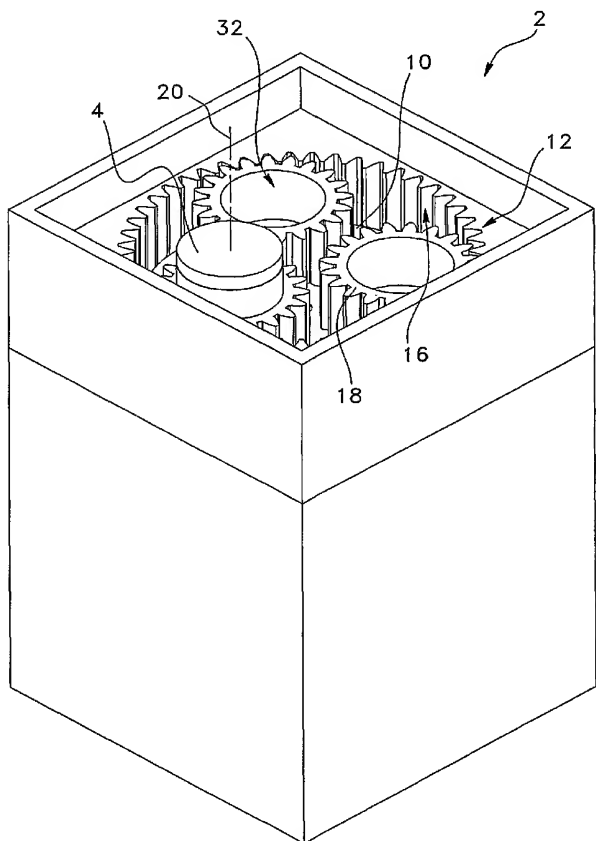
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(54) Title: **BLADELESS MIXER**



(57) Abstract: A bladeless mixer/mill for agitating and mixing a compound/product. The mixer/mill comprises a driving shaft rotatable about a first vertical axis of rotation, and a motor unit operatively coupled to the driving shaft for rotating the same. A support plate is mounted onto the driving shaft and is rotatable about the first vertical axis. The mixer/mill also has a stationary ring gear coaxial to the support plate. The stationary ring gear has a portion with an inner surface extending above the support plate. At least one pinion gear is rotatably mounted onto the support plate about a second vertical axis of rotation parallel to the first vertical axis of rotation. The pinion gear has an outer surface complementary to the inner surface of the stationary ring gear. The outer surface of the pinion gear meshes with the inner surface of the stationary ring gear. The pinion gear has a cavity wherein the compound/product to be agitated and mixed/milled is inserted.

WO 2005/087358 A1



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